

"Amateur Radio: Combining communication experience with modern digital techniques."

RTA Port Elizabeth 21 August
International Lighthouse and Lightship week-
end 21 & 22 August
SARL HF CW Contest 29 August
ZS6JVT Spring 40 Metre Youth Contest 4 Sep-
tember



VK continues to lead in ILLW registrations

The friendly rivalry in recent International Lighthouse and Lightship Weekends between Australia and Germany has VK still ahead of DL in terms of the number of registrations for the ILLW on 21 and 22 August. Between these two countries, they have one third of all 360 registrations so far.

The registration of another two lighthouses bumps Australia's total to 56, breaking its previous record of 51 set in 2008.

Trevor Close, VK3ATX, intends to operate from Gabo Island in far eastern Victoria Australia, while intrepid portable QRP operator Peter Parker, VK3YE, has chosen the inner-suburban Port Melbourne lighthouse, which is at the end of a tramline.

Germany has 54 registrations with a few more expected over the next couple of weeks. North America has 54 too, with eight of those in Canada and the rest in the USA.

Cuba has returned after an absence of five years. The DX Group has announced that a team of five operators will be signing COOFPM from the Punta de Maisi lighthouse in Guantanamo Province. That operation will be CW and SSB on 80 to 10 m, hopefully more Cuban lighthouses will join ILLW in coming years.

Across the other side of the world is Market Reef, a little island between Finland and Sweden that is shared by both countries. Five DXers signing OJOSARTG will active for ILLW as well as operating during the Scandinavian Amateur Radio Teleprinter Group RTTY contest. We wish them well.

From Turkey there is news that the Sile Lighthouse will be activated using a special event call sign TC150SLH to celebrate its 150th anniversary. The 200th registration this year was from Ting, BV1EJ, for the Kaohsiung Lighthouse in southwestern Taiwan, putting that country into the ILLW for the first time.

Forty-one countries are registered so far. Those not already been mentioned are England (33), Netherlands (25), Sweden (18), Scotland (14), South Africa (11), New Zealand (8), Finland, Poland and Wales (6 each), Chile, Denmark, Italy and Northern Ireland (4 each), Austria, Belgium, Mexico and Norway (3 each), Portugal, Puerto Rico, Turkey and Uruguay (2 each), with Alaska, Falkland Islands, France, Gibraltar, Honduras, Iceland, India, Ireland, Jersey and Malaysia, Namibia, Romania, Russia, Spain and Ukraine - all with one registration.

To see the full registration list or to register a lighthouse visit www.illw.net

HF Happenings 418



August

1 SARL HF Phone Contest
4 closing date SARL Club logs
9 National Women's Day, SARL YL Sprint; closing date Boland logs
12 First day of Ramadan; International Youth Day
16 closing date HF Phone logs
21 RTA Port Elizabeth
21/22 International Lighthouse and Lightship activity
24 closing date YL Sprint logs
29 SARL HF CW Contest
31 African Traditional Medicine Day

September

1 Secretaries Day
4 ZS6JVT Spring 40 Metre Youth Contest
6 - 10 National Arbour Week
9 Rosh Hashanah
10 Eid al-Fitr
11 ARRL September VHF QSO Party
12 Spring QRP Sprint; ARRL September VHF QSO Party
13 Closing date SARL CW logs
16 World Ozone Day
18 Yom Kippur; RTA, Gauteng
18/19 SARL VHF/UHF Contest
21 World Alzheimer's Day; International Day of Peace
21 - 25 African Aerospace and Defence Show, AFB Ysterplaat, Cape Town
23 Spring Equinox; Schools close
24 Heritage Day/National Braai Day; Heritage Day Sprint
25/26 CQ WW RTTY contest
27 World Tourism Day; World Heart Day; Closing date Spring QRP logs
29 SARL 80 m Club Digamodes Contest

ICASA New Regulation Process

ICASA is writing new regulations for all radio services. The regulations will complement the Table of Frequency Allocations published last week in the Government Gazette. In addition supplementary band plans will be developed which in the case of amateur radio will cover the amateur frequency allocations and specify the conditions under which the bands may be used, such modes and permitted power levels.

In the table of frequency allocations amateur radio acquired a VLF allocation namely from 135,7 - 137,8 kHz. Use of this allocation will however have to wait until the supplementary band plan is promulgated. The SARL/ICASA liaison meeting held during last week ICASA agreed as an interim measure to add the VLF allocation to the current radio regulations. This would require a notice in the Government Gazette. ICASA undertook to have this completed by the next liaison meeting in early November.

The SARL requested ICASA to expedite the SADC agreement, which would allow radio Amateurs in SADC countries to operate in each other's countries without the need for additional licenses or permits. As the SARL requested this action over a year ago, ICASA was urged to complete the agreement as soon as possible also before the next meeting. The Chairman of the meeting indicated that this was already in place for commercial vehicle travelling across borders and that he would expedite the process.

Since the establishment of the Liaison committee a number of issues have been resolved including the expansion of the 40 metre band, operation in South Africa by all licensed amateurs during the recent World Cup Soccer event, operation by delegates attending the 2011 IARU Region 1 Conference in August 2011 and simplification for applying for permission to operate Spread Spectrum.

Contest Results

SARL Youth Day Sprint. The complete results for the 2010 SARL Youth Day Sprint have been received from the contest committee.

- 1st Rudi Sygo, ZS6RDI, 14 years, 135 points
- 2nd Mitchell Mynhardt, ZS6YH, 12 years, 107 points
- 3rd Simoné da Silva, 18 years, 78 points
- 4th Daniel Meyer, ZS5DMX, 20 years, 54 points
- 5th Dylan Walsh, ZU3DW, 14 years, 49 points
- 6th Byron Ward, 9 years, 33 points
- 7th Hugo Coetzee, ZU3H, 16 years, 26 points
- 8th CJ van Jaarsveld, 11 years, 23 points
- 9th Francois Herbst, 26 years, 18 points

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- 10th Ruan Maritz, ZU3R, 17 years, 17 points
 11th Fernaldo, 9 points
 12th Greg Bath, ZU6GMP, 12 years, 8 points
 13th Eduan Leighton, 4 years, 5 points
 14th Shane, 2 points

Check logs

- Jan Botha, ZS4JAN, 21 points
 Johan Smith, ZS3AAK, 9 points
 Theunis Potgieter, ZS2EC, 7 points
 Eddie Leighton, ZS6BNE, 3 points

SARL 80 metre Club Contest. The fourth contest of the Club Contest series took place on Wednesday evening 28 July. The committee received 20 logs from three clubs. The committee is concerned about the lack of participation by other clubs.

- 1st West Rand ARC with 215 points from 14 logs
 2nd The ZS Contest Group with 79 points from 2 logs
 3rd The Southern African Antique Wireless Association with 56 points from 4 logs.

The committee reviewed the logs and noted a number of busted calls - the correct call is ZU6XXX, but ZS6XXX is in the log. We noted a QSO with Macedonia Z3, but believe this should have been 3DA. Two QSOs with silent keys were also noted, in the one case it was a typing error. We also noted ZR4LP does not always sign correctly as ZR4LP/6 as his QTH is in Nelspruit.

Thank you to all the participants, the next 80 metre Club contest is the digital contest on 29 September.

| West Rand ARC | | SA AWA | | ZS Contest Group | |
|---------------|----|--------|----|------------------|----|
| ZS2A | 35 | ZS6ADY | 19 | ZS4PJ | 48 |
| ZS6JVV | 28 | ZS5JF | 16 | ZS4PP | 31 |
| ZS6AGF | 21 | ZS0AWA | 15 | | |
| ZS6ARQ | 21 | ZS2J | 6 | | |
| ZS6GRL | 21 | | | | |
| ZS6PVT | 17 | | | | |
| ZS6RLM | 15 | | | | |
| ZS6DUG | 13 | | | | |
| ZR6AOC | 11 | | | | |
| ZR6BUC | 10 | | | | |
| ZS6PGR | 9 | | | | |
| ZS6PRS | 7 | | | | |
| ZR6ESJ | 5 | | | | |
| ZS6WWJ | 2 | | | | |

New narrow-band mode for LF/MF released

Con Wassilieff, ZL2AFP, has recently released a new narrow-band digital mode, CMSK, designed specifically for the LF and MF ham radio bands (2 200, 600 and 160 m).

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The mode uses MSK modulation, familiar to LF and MF listeners as the mode most used by commercial and military transmissions. One major advantage of MSK is that unlike PSK, it does not require linear amplification to maintain narrow bandwidth.

The new ZL2AFP CMSK mode can be described as Correlated, Convolved Minimum Shift Keying, and uses a full-time NASA standard convolutional coder with a generous interleaver to provide impressive QRN resistance. Synchronism is assured, even on very weak signals, by a transmitted PN-sequence frame marker and cross-correlator at the receiver.

Four modes have been provided, from 125 baud (<200 Hz bandwidth, 60 WPM) down to 7.8 baud (12.5 Hz bandwidth, 4 WPM). The narrowest and slowest mode is intended for beacon applications, and can be received 100% at -21 dB S/N in 3 kHz bandwidth. The default mode, CMSK63, has been reliably copied across the Tasman, at a range of 2 200 km on 600 m from a transmission well under 1 W EIRP.

Visit www.qsl.net/zl1bpu/CMSK/cmsk.htm for the software for this new mode as well as a description of the design.

African DX

Mauritius and Rodriguez Island, 3B8/3B9. Giorgio, IZ4AKS, will be active as 3B9/IZ4AKS from Rodrigues Island (AF-017) between 28 August and 4 September. Activity will be limited to his free time as this is a holiday style operation and not a dedicated DXpedition. Look for activity on 10 - 40 metres, mainly SSB, but possibly RTTY and CW. He will use a FT-897D with 100 watts into a vertical antenna placed near the ocean. Prior to and after his Rodriguez activity, look for Giorgio to possibly be active as 3B8/IZ4AKS from Mauritius (AF-049). QSL only direct with SAE and 2 USDs (NO IRC, NO BUREAU QSLs).

Tunisia, An Italian team of operators will activate the Tunisian Islands of Plane (AF-091) and Kuriat (AF-092) as TS7TI between 13 and 23 September. Operators mentioned are Alfredo, IK7JWX, Leopoldo, I8LWL, Simon, IZ7ATN, IK7UXW, Ampelio, ISOAGY, and Ivo, 9A3A (CW op). Activity will be on all bands HF, WHF, VHF and 6 m, using CW, SSB, PSK31 and RTTY. During their activity they will also activate some wanted WFF/VFF reference numbers and the most wanted grid square JM57. They are currently seeking sponsors/supporters for this DXpedition.

Chagos Islands, VQ9. Larry, N0QM/VQ9LA, on Diego Garcia (AF-006) informs OPDX: "The VQ9X club station lost the HYGAIN 14 Element HF Log Periodic Antenna early July 2010 due to a Boom to Mast Clamp failure, the antenna is now on the ground and will be repaired in the future. When the antenna fell off the mast, it took out the 40 m dipole, Wire V-Beam, and 2 metre repeater antenna.

The V-beam was repaired on 30 July 2010 by VQ9LA and VQ9JC, now the VQ9X club is on the air with the 270 foot per leg ladder line V-Beam. The 160 m antenna will be off the air until the Log Periodic is put back up on the tower. This fine antenna has provided many contacts with the worldwide DX community for the past 11 years and will be missed. I returned back to Diego Garcia on 26 July 2010 after being off the Island for a few months.... 73, Larry VQ9LA"

Tristan da Cunha and Gough Islands, ZD9. John, ZS1LF, will be active as ZD9GI from Gough Island (AF-039) between September 2010 and September 2011. This is John's second tour to Gough Island, and he will be the new radio technician and team leader on the island. The team consists of a medic, diesel mechanic, radio technician, three weather observers and two research assistants. He will be departing from Cape Town, South Africa, on the polar supply ship "SA Agulhas" (the same ship Pierre, ZS1HF/ZS8M used). Activity will be on 160 - 10 metres

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mainly using SSB, but possibly some Digital modes later. Operating will mostly be done after his official working hours and weekends. His equipment will be a TS-480 and dipoles (no Yagis due to bird life). QSL Manager is ZS1A (j-s@iafrica.com). QSL direct to: Johan Sevenster, 2 Roozeboom Str, de Bron, Bellville, 7530, South Africa. Also by the Bureau. More details are available on QRZ.com.

PLEASE NOTE: John states, "If you require Gough Island, please feel free to contact me at zd9gi@yahoo.co.uk and I will try to assist you. If you do not get an answer immediately, it means I am out of the office and busy elsewhere on the island. I will return all e-mails when I return. If you would like to receive pictures and stories, please e-mail me."

Marion Island, ZS8. Pierre, ZS1HF/ZS8M, informs OPDX that Max, IZ8EPY, has kindly created the following Web site at <http://www.iz8epy.it/html/zs8m.html>. The Web contains pictures that Pierre has taken on the island and an online logbook. There are also newsletters that Pierre has written (in PDF format) from Marion Island. PLEASE TAKE NOTE: Pierre, ZS8M, will be off the air starting at 15:00 UTC 8 August until 05:00 UTC 19 August, while the supply ship is being unloaded. All hands are required to help sort out the unloading, etc.

Zimbabwe, Z2. Herbert, 7Z1HB, will be active again as Z21LS from Harare from 13 to 19 August. Unfortunately, he has no low band antennas. QSL via bureau to DE1ZHB or direct to Herbert Baumann, Jadawel International, PO Box 61539, Riyadh 11575, Villa 408, Saudi Arabia. Everybody who sent his QSLs for 7Z1HB direct and received no reply yet is asked to send an e-mail to Herbert: Herbert.Baumann@gmx.net

Africa Trip. Les, W2LPL, and his son Daniel, W2DBL, will be active mostly on SSB from South Africa signing ZS6/homecall from 11 to 15 August. Their next stop will be the Tuli Bloc in Botswana where they will sign A25/homecall from 16 to 19 August. QSLs via their homecalls.

Special event station

Ierland. EI50UN is currently active on the bands until 31 December 2010 celebrating the 50th anniversary of the first Irish Battalion to serve overseas with the United Nations in Congo. QSLs via EI2V (QRZ.com), the Irish Air Corps Amateur Radio Club. Visit the website at www.qrz.com/db/EI50UN

Contest Calendar

This week's contests compiled by Bruce Horn, WA7BNM. The period covered is 9 to 15 August 2010.

NAQCC Straight Key/Bug Sprint

00:30 - 02:30 UTC 11 August

Mode: CW

Bands: 80, 40 and 20 m

Classes: (none)

Max power: 5 watts

Exchange: RST, state, province or country and NAQCC no or power

Work stations: Once per band

QSO Points: 1 point per QSO with non-member; 2 points per QSO with member

Multipliers: Each state, province or country once

Key Type Mult: 2x if straight key, 1.5x if bug, 1x if other

Score Calculation: Total score = total QSO points x total mults x key type mult

Submit logs by: 23:59 UTC 14 August 2010

E-mail logs to:

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naqcc33[at]windstream[dot]net

Post log summary at:

http://home.windstream.net/yoel/sprint_submit_log.html

Mail logs to: John Shannon, K3WWP, 478 E. High St., Kittanning, PA 16201, USA

Find rules at:

<http://home.windstream.net/yoel/sprint201008.html>

QRP Fox Hunt

01:00 - 02:30 UTC 11 August

Mode: CW

Bands: 20 m Only

Classes: Single Op - Fox or Hound

Max power: 5 watts

Exchange: RST, state, province or country, name and power output

QSO Points: 1 point per QSO

Multipliers: (none)

Score Calculation: Total score = total QSO points

Submit logs by: 02:30 UTC 12 August 2010

E-mail logs to: (see rules)

Mail logs to: (none)

Find rules at:

http://www.qrpfoxhunt.org/summer_rules.htm

CWops Mini-CWT Test

11:00 - 12:00 UTC 11 August and 19:00 - 20:00 UTC 11 August and 03:00 - 04:00 UTC 12 August

Mode: CW

Bands: 80, 40 and 20 m

Classes: Single Op - QRP, Low or High

Max power: HP: >100 watts; LP: 100 watts; QRP: 5 watts

Exchange: Member: Name and member no; non-Member: Name and state, province or country

Work stations: Once per band

QSO Points: 1 point per QSO

Multipliers: Each call once

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 04:00 UTC 14 August 2010

Post log summary at:

<http://www.hornucopia.com/3830score/>

Mail logs to: (none)

Find rules at:

<http://www.cwops.org/onair.html>

RSGB 80 m Club CW Sprint

19:00 - 20:30 UTC 12 August

Mode: CW

Bands: 80 m Only

Classes: 100 W; 10 W

Exchange: other station's call, your call, serial no and your name

QSO Points: 1 point per QSO

Multipliers: (none)

Score Calculation: Total score = total QSO points

Submit logs by: 19 August 2010

Upload log at: <http://www.rsgbcc.org/cgi-bin/hfenter.pl>

Mail logs to: (none)

Find rules at:

<http://www.rsgbcc.org/hf/rules/2010/rsprint.shtml>

NCCC Sprint Ladder

02:30 - 03:00 UTC 13 August

Mode: CW

Bands: 160, 80, 40 and 20 m

Classes: Single Op

Max power: 100 watts

Exchange: (see rules)

Work stations: Once per band

QSO Points: NA station: 1 point per QSO; non-NA station: 1 point per QSO with an NA station

Multipliers: Each US state (including KL7 and KH6) once per band; each VE province once per band; each North American country (except W/VE) once per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 15 August 2010

E-mail logs to: (none)

Post log summary at:

<http://www.hornucopia.com/3830score/>

Mail logs to: (none)

Find rules at:

<http://www.ncccsprint.com/rules.html>

WAE DX CW Contest

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00:00 UTC 14 August to 23:59 UTC 15 August

Mode: CW

Bands: 80, 40, 20, 15 and 10 m

Classes: Single Op - High or Low; Multi-Op; SWL

Max operating hours: Single Op: 36 hours, off times in 1 to 3 parts; Multi-Op: 48 hours

Max power: HP: >100 Watts; LP: 100 Watts

Exchange: RST and Serial No

Work stations: Once per band

Score Calculation: (see rules)

Submit logs by: 30 August 2010

E-mail logs to:

waecw[at]dxhf[dot]darc[dot]de

Mail logs to: (none)

Find rules at:

<http://www.darc.de/referate/dx/contest/waedc/en/rules/>

Keyman's Club of Japan Contest

12:00 UTC 14 August to 12:00 UTC 15 August

Mode: CW

Bands: 160, 80, 40, 20, 15, 10 and 6 m

Classes: Single Op Multiband; Single Op Single Band (JA Only); SWL

Exchange: JA: RST and prefecture/district code; non-JA: RST and continent code

QSO Points: JA Station: 1 point per QSO with JA station; JA Station: 5 points per QSO with DX station; DX Station: 1 point per QSO with JA station

Multipliers: Each JA prefecture once per band; JA Station: Each continent once per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 15 September 2010

E-mail logs to: [kcj-log\[at\]kcj-cw\[dot\]com](mailto:kcj-log@kcj-cw.com)

Mail logs to: M. Namba, 1420-55 Kibara, Sammu-city, Chiba 289-1212, Japan

Find rules at:

http://www.kcj-cw.com/contest/10_kcj_contest_rule_e.pdf

Maryland-DC QSO Party

16:00 UTC 14 August to 04:00 UTC 15 August and 16:00 UTC-24:00 UTC 15 August

Mode: CW/Digital, Phone

Bands: 160, 80, 40, 20, 15, 10, 6, 2 and 432

Classes: Standard; Mobile; Club; QRP

Exchange: MDC: entry class and county; non-MDC: entry class and state, province or country

Work stations: Once per band per mode

QSO Points: 10 points per QSO with club station; 5 points per QSO with mobile station; 4 points per QSO with QRP station; 3 points per QSO with CW/digital station; 1 point per QSO for all other stations

Multipliers: MDC: Each MD county, DC, Baltimore City, once only; MDC: Each state (other than MD), VE province and country once only; non-MDC: Each MD county, DC, Baltimore City, once only

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 14 September 2010

E-mail logs to: [MDQSOP\[at\]w3vpr\[dot\]org](mailto:MDQSOP@w3vpr.org)

Mail logs to: MDC QSO Party, PO Box 308, Davidsonville, MD 21035, USA

Find rules at:

http://mdqsoparty.w3vpr.org/Documents/Maryland_QSO_Party_Rules_Eff_2010_v2-0.pdf

Feld Hell Sprint

20:00 - 22:00 UTC 14 August

Mode: Feld Hell

Bands: 160, 80, 40, 20, 15 and 10 m

Classes: (none)

Max power: 100 watts

Exchange: (see rules)

Work stations: Once per band

QSO Points: (see rules)

Bonus Points: (see rules)

Multipliers: each state, province and country once only

Score Calculation: Total score = (total QSO points x total mults) and bonus points

Submit logs by: 1 September 2010

E-mail logs to: (none)

Post log summary at:

<http://sites.google.com/site/feldhellclub/Home/contests>

Mail logs to: (none)

Find rules at:

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<http://sites.google.com/site/feldhellclub/Home/contests>

ARRL Rookie SSB Roundup

18:00 - 23:59 UTC 15 August

Mode: SSB

Bands: 80, 40, 20, 15, 10 and 6 m

Classes: Single Op Rookie; Non-Rookies

Max power: 100 watts

Exchange: NA: Name, 2-digit year first licensed and state, province, XE area or DX

Work stations: Once per band

QSO Points: 1 point per QSO with non-rookie; 2 points per QSO with rookie

Multipliers: Each US state and DC once; Each VE province once; Each XE call area once; One DX once

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 23:59 UTC 18 August 2010

E-mail logs to: (none)

Post log summary at:

<http://www.arrl.org/rookie-roundup-score-submission>

Mail logs to: (none)

Find rules at:

<http://www.arrl.org/rookie-roundup>

Run for the Bacon QRP Contest

01:00 - 03:00 UTC 16 August

Mode: CW

Bands: 160, 80, 40, 20, 15 and 10 m

Classes: Single band; all band

Max power: 5 watts

Exchange: RST, state, province or country and member no or power

Work stations: Once per band

QSO Points: 1 point per QSO with non-member; 3 points per QSO with member on same continent; 5 points per QSO with member on different continent

Multipliers: Each state, province or country once

Multiply mults by 2 if >50 members worked

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 22 August 2010

E-mail logs to: (none)

Upload log at:

<http://www.fpqrp.com/autolog.php>

Mail logs to: (none)

Find rules at:

<http://www.fpqrp.com/fpqrpun.php>

Next Week's Contests

QRP Fox Hunt, 01:00 - 02:30 UTC 18 August

NCCC Sprint Ladder, 02:30 - 03:00 UTC 20 August

SARTG WW RTTY Contest, 00:00 - 08:00 UTC, 16:00 - 24:00 UTC 21 August and 08:00 - 16:00 UTC 22 August

Russian District Award Contest, 08:00 UTC 21 August to 08:00 UTC 22 August

ARCI Silent Key Memorial Sprint, 15:00 - 18:00 UTC 21 August

North American SSB QSO Party, 18:00 UTC 21 August to 06:00 UTC 22 August

New Jersey QSO Party, 20:00 UTC 21 August to 07:00 UTC 22 August and 13:00 UTC 22 August to 02:00 UTC 23 August

This week in History

A look back at events that made history this week - compiled by the Summerland Amateur Radio Club of Lismore, NSW. The week starting Monday 09 August 2010

1831 - New York runs its first steam locomotive

1848 - M. Waldo Hanchett of Syracuse, NY patents the dental chair.

1851 - I. Singer of New York City patents the double-treadle sewing machine

1858 - Dr M Loomis conducts the first radio experiments. Ohio, USA

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- 1859 - N. Ames of Saugus, Maryland, USA, patents the escalator
- 1865 - Joseph Lister is the first doctor to use disinfectant during surgery
- 1877 - Thomas A. Edison finished figuring out his first phonograph
- 1880 - Exactly 632 years after rebuilding began, the Cologne Cathedral in Germany, was completed
- 1889 - W. Gray of Hartford, CT patents the coin-operated telephone
- 1888 - O. B. Shallenberger of Rochester, PA patents the electric charge meter
- 1893 - France is first country to introduce car registration plates
- 1907 - The first taxicab took to the streets of New York City
- 1909 - "Arapahoe" is the first US ship to use the radio distress call, SOS
- 1910 - A. J. Fisher of Chicago patents the Electric Washing Machine
- 1919 - E. Fisk demonstrates radiotelephony for the first time in Sydney, Australia

Items used with acknowledgement to The ARRL Letter, Amateur Radio Newsline, OPDX Bulletin, 425 DX Bulletin, DXNL Bulletin, ARRL DX News, WIA-News, the RSGB News, Southgate ARC and Pete's DX Newsdesk.

Newsletter editors are most welcome to use material from HF Happenings, just remember to acknowledge the source (which could be any one of the names mentioned above). HF Happenings can be provided in MS Word format.

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